

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	10/049,280A
Source:	Purlo
Date Processed by STIC:	6/12/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
- Hand Carry directly to:
 U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202

U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 10/049, 280 A								
ATTN: NEW RULES CASE	s: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE								
1Wrapped Nucleics Wrapped Aminos									
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.								
3Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.								
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.								
5Variable Length	Sequence(s)contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.								
6PatentIn 2.0 "bug"	A "bug" in Patentln version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, Patentln would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.								
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped								
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.								
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If Intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000								
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.								
I0Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence								
Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)								
PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of Patentln version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.								
3Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.								

AMC/MH - Biotechnology Systems Branch - 08/21/2001



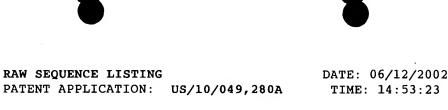
PCT10

RAW SEQUENCE LISTING DATE: 06/12/2002 PATENT APPLICATION: US/10/049,280A TIME: 14:53:23

Input Set : A:\seq list.txt.

Output Set: N:\CRF3\06122002\J049280A.raw

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3 <110> APPLICANT: BASF Aktiengesellschaft
  5 <120> TITLE OF INVENTION: Homogentisate-Dioxygenase
  7 <130> FILE REFERENCE: M/40226
9 <140> CURRENT APPLICATION NUMBER: US/10/049,280A
                                                                                                                             Does Not Comply
10 <141> CURRENT FILING DATE: 2002-05-08
                                                                                                                              Corrected Diskette Needed
12 <160> NUMBER OF SEQ ID NOS: 15
14 <170> SOFTWARE: PatentIn Ver. 2.1
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 575
18 <212> TYPE: DNA
19 <213> ORGANISM: Brassica napus
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22 <221> NAME/KEY: misc_feature
23 <222> LOCATION: (1)..(6)
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27. <221> NAME/KEY: misc_feature
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29 <223> OTHER INFORMATION: /function = "restriction site"
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33 gcatggtttg aggaagggct acggcctgac tacactattg ttcagaagtt tggcggtgaa 120
34 ctctttactg ctaaacaaga tttctctccg ttcaatgtgg ttgcctggca tggcaattac 180
35 gtgccttata agtatgacct gcacaagttc tgtccataca acactgtcct tgtagaccat 240
36 ggagatecat etgtaaatae agttetgaea geaceaaegg ataaaeetgg tgtggeettg 300
37 cttgattttg tcatattccc tcctcgttgg ttggttgctg agcatacctt tcgacctcct 360
38 tactaccate gtaactgcat gagtgaattt atgggeetaa tetatggtge ttacgaggee 420
39 aaagetgatg gatttetaee tggtggegea agtetteaea gttgtatgae aceteatggt 480
40 ccagatacaa ccacatacga ggcgacgatt gctcgtgtaa atgcaatggc tccttataag 540
41 ctcacaggca ccatggcctt catgtttgag gtacc
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46 <212> TYPE: DNA
47 <213> ORGANISM: artificial sequence
49 <220> FEATURE:
50 <223> OTHER INFORMATION: description of artificial sequence: /desc =
               "Oligonucleotide" insufficient explanation - que source of genetice production of artificial sequence. All genetice productions of the sequence of genetice productions of the sequence of the
53 <220> FEATURE:
54 <221> NAME/KEY: misc_feature
55 <222> LOCATION: (9)
56 <223> OTHER INFORMATION: /mod_base = i
58 <220> FEATURE:
59 <221> NAME/KEY: misc_feature
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Input Set : A:\seq list.txt

Output Set: N:\CRF3\06122002\J049280A.raw

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     61 <223> OTHER INFORMATION: /mod_base = i
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     69 <221> NAME/KEY: misc_feature
     70 <222> LOCATION: (18)
     71 <223> OTHER INFORMATION: /mod_base = i
     73 <220> FEATURE:
    74 <221> NAME/KEY: misc_feature
     75 <222> LOCATION: (21)
     76 <223> OTHER INFORMATION: /mod_base = i
     78 <220> FEATURE:
     79 <221> NAME/KEY: misc_feature
     80 <222> LOCATION: (24)
     81 <223> OTHER INFORMATION: /mod_base = i
     83 <400> SEQUENCE: 2
₩ > 84 gtcgacggnc cnatnggngc naangg
                                                                            26
     87 <210> SEQ ID NO: 3
     88 <211> LENGTH: 29
     89 <212> TYPE: DNA
     90 <213> ORGANISM: artificial sequence
     92 <220> FEATURE:
     93 <223> OTHER INFORMATION: description of artificial sequence: /desc =
     94 "Oligonucleotide"
96 <220> FEATURE:
                                  ) same eno
     97 <221> NAME/KEY: misc_feature
     98 <222> LOCATION: (18)
     99 <223> OTHER INFORMATION: /mod_base = i
     101 <220> FEATURE:
     102 <221> NAME/KEY: misc_feature
     103 <222> LOCATION: (24)
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    120 <220> FEATURE:
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RAW SEQUENCE LISTING DATE: 06/12/2002 PATENT APPLICATION: US/10/049,280A TIME: 14:53:23

Input Set : A:\seq list.txt

Output Set: N:\CRF3\06122002\J049280A.raw

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RAW SEQUENCE LISTING DATE: 06/12/2002 PATENT APPLICATION: US/10/049,280A TIME: 14:53:23

Input Set : A:\seq list.txt

Output Set: N:\CRF3\06122002\J049280A.raw

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RAW SEQUENCE LISTING DATE: 06/12/2002 PATENT APPLICATION: US/10/049,280A TIME: 14:53:23

Input Set : A:\seq list.txt

Output Set: N:\CRF3\06122002\J049280A.raw

							. (11		ion .	- 0 m.		i ot i .	~ ~ ~ ~	:+ ~ 11			
	6 <223> OTHER INFORMATION: /function = "restriction site" 8 <400> SEQUENCE: 14																
						act	act	cat	cat	act	cca	σat.	act	act	аσа	caa	49
270	J	J					Thr										1,0
271			1				5					10			9	0111	
273	act	gat	cct	ttt	cca	att	aag	σσα	at.σ	αat.	act	att	at.t.	ttc	act	att	97
274	Ála	Asp	Pro	Phe	Pro	Val	Lys	Glv	Met	Asp	Ala	Val	Val	Phe	Ala	Val	,
275	15	~	•			20	-1 -	1			25					30	
	qqa	aac	gct	aaq	caa	qct	gct	cat	tac	tac		act	act	tte	ααa		145
							Ala										110
279	_			-	35				•	40					45		
281	caa	ctt	gtt	gct	tac	tct	gga	cca.	qaa	aac	qqa	tct	aga	gaa	act	act	193
							Gly										
283				50	_		-	-	55		•		,	60			
285	tct	tac	gtt	ctt	act	aac	gga	tct	gct	aga	ttc	gtt	ctt	act	tct	gtt	241
							Gly										
287			65					70					75				
							tgg										289
290	Ile	Lys	Pro	Ala	Thr	Pro	${\tt Trp}$	Gly	His	Phe	Leu	Ala	Asp	His	Val	Ala	
291		80					85					90					
							gtt										337
	Glu	His	Gly	Asp	Gly	Val	Val	Asp	Leu	Ala	Ile	Glu	Val	Pro	Asp	Ala	
295	95					100					105					110	
297	aga	gct	gct	cat	gct	tac	gct	att	gaa	cat	gga	gct	aga	tct	gtt	gct	385
	Arg	Ala	Ala	His		Tyr	Ala	Ile	Glu	His	Gly	Ala	Arg	Ser	Val	Ala	
299					115					120					125		
																gct '	433
	GLu	Pro	Tyr		Leu	Lys	Asp	Glu		Gly	Thr	Val	Val		Ala	Ala	
303				130					135				,	140			
							act										481
	ше	Ата		туг	GIY	ьys	Thr		His	Thr	Leu	Val		Arg	Thr	Gly	
307	+	~~+	145		.			150					155				
							cca										529
311	тут	160	Сту	PIO	TYL	ьец	Pro 165	сту	туг	vaı	Ата		Ата	Pro	TTE	val.	
	ma a		002	ara+	ast	2072		++0		~ a+	2++	170	an+	++			C 7 7
							acc Thr										577
315		FIO	PIU	Ala	пто	180	TIIT	Phe	GTII	нта	185	ASP	HIS	Cys	val	-	
		αtt	паа	ctc	aaa		atg	220	us s	taa		~~~	++0	+20	220	190	625
							Met										625
319	11011	· uı	Olu	neu	195	Arg	riec	изп	GIU	200	Val	СТУ	FIIE	тут	205	пуѕ	
	att	atσ	gga ·	ttc		aac	atg	aan	паа		att	απa	aat	αat		aat	673
322	Val	Met	Glv	Phe	Thr	Asn	Met	Lve	Glu	Phe	Val	Glv	yu ι Δen	Aen	Tla	Δla	0/3
323				210				272	215	1110	vuı	OLY	пър	220	11.0	AIG	
	act	σασ	tac		act	ctt	atg	tict		att	att	act	αat		act	ctt	721
326	Thr	Glu	Tyr	Ser	Ala	Leu	Met	Ser	Lvs	Val	Val	Ala	Asn	Glv	Thr	Leu	121
327			225					230	-1-				235	1			
	aaq	qtt		ttc	cca	att	aat		cca	act	ctt	act.		aaσ	αασ	t.ct.	769
	,	, -						ر		,		, , ,	~~3	3	7		

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 06/12/2002 PATENT APPLICATION: US/10/049,280A TIME: 14:53:24

Input Set : A:\seq list.txt

Output Set: N:\CRF3\06122002\J049280A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the $\langle 220 \rangle$ to $\langle 223 \rangle$ fields of each sequence which presents at least one n or Xaa.

Seq#:2; N Pos. 9,12,15,18,21,24

Seq#:3; N Pos. 18,24,27